



SAFETY DATA SHEET

WD-C60

Ref. /US/EN

Revision Date: 05/22/2020

Previous date: 11/19/2019

Print Date:07/07/2021

1. IDENTIFICATION

Product information

Product name
WD-C60

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture

Water treatment chemical

Recommended restrictions on use

-

Supplier's details

Anderson Chemical Company
325 South David Avenue
Litchfield, MN 55355
320-693-2477

Emergency telephone number

CHEMTREC (24 Hours): 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

The product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).,

GHS-Labeling

Product is not hazardous under US GHS.

Hazard(s) not otherwise classified (HNOC) or not covered/classified by GHS

Advice; Forms slippery/greasy layers with water.

Potential environmental effects; This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substances /Mixtures**

Mixture
Chemical nature : Cationic polyacrylamide.

Hazardous components

Chemical name	CAS-No.	Concentration[%]
Citric acid	77-92-9	0 - 9.9 %
Adipic acid	124-04-9	0 - 5 %

The total combined concentration of Adipic acid and Citric acid does not exceed 9.9%.

Further information

Hazardous components listed do not result in product classification.

4. FIRST AID MEASURES**Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. If there is difficulty in breathing, medical advice is required.

Skin contact

Wash off immediately with soap and plenty of water.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Ingestion

Material is not expected to be harmful by ingestion. No hazards which require special first aid measures.

Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Hazards : No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Treatment : Symptomatic treatment.

5. FIREFIGHTING MEASURES**Suitable extinguishing media**

Water spray

Dry chemical

Carbon dioxide (CO₂)

Water mist

Unsuitable extinguishing media

none

Special hazards arising from the substance or mixture

Dust may be explosive if mixed with air in critical proportions and in the presence of a source of ignition.

Special protective actions for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use NIOSH/MSHA approved respiratory protection.

Further information

In the event of fire, cool tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

For personal protection see section 8.

Environmental precautions

Try to prevent the material from entering drains or water courses.

Methods and materials for containment and cleaning upProduct becomes slippery when it is wet. Sweep up and shovel into suitable containers for disposal.
Flush with water. Prevent product from entering drains.**Additional advice**

For personal protection see section 8.

7. HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities

Store at room temperature in the original container.

Materials for packaging

Unsuitable material: To avoid product degradation and equipment corrosion, do not use iron, copper or aluminium containers or equipment.

Materials to avoid:

Strong oxidizing agents

Storage stability:

Storage temperature 39.2 - 80.6 °F

Other data Stable under recommended storage conditions.

Reason:
integrity

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Components	CAS-No.	Value	Form of exposure	Control parameters	Update	Basis
Adipic acid	124-04-9	TWA		5 mg/m ³	2007-01-01	ACGIH

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Do not breathe dust. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment Industrial Hygiene

Respiratory protection

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

Hand protection

Glove material: Impervious gloves, Permeability tests are not available for this product. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection

Protective clothing.

Eye protection

Safety goggles

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state	solid
Form	crystalline, powder
Colour	off-white
Odour	odourless
Odour Threshold pH	Not relevant 3 - 5 Concentration: 0.5 % (as aqueous solution)

Freezing point/Melting point :

No data available

Initial boiling point and boiling range

Not applicable

Flash point

Not applicable

Evaporation rate

Not applicable

Flammability (solid, gas)

No data available

Explosive properties:**Lower explosion limit**

No data available

Upper explosion limit

No data available

Oxidizing properties

The substance or mixture is not classified as oxidizing.

Vapour pressure

Relative vapour density	Not applicable
Density	Not applicable
Relative density	No data available
Bulk density	No data available
Solubility(ies):	750 kg/m ³
Water solubility	Limited by viscosity.
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	> 150 °C
Decomposition temperature	> 302 °F
Viscosity:	
Viscosity, dynamic	Not applicable
Viscosity, kinematic	Not applicable
Oxidizing potential	No data available The substance or mixture is not classified as oxidizing.
Saturation in air (% vol.)	Not applicable
Surface tension	Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions.

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

Hazardous polymerisation does not occur.

Conditions to avoid

Avoid contact with alkaline materials which will degrade the polymer.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Ammonia
Carbon oxides (COx)

Nitrogen oxides (NO_x)
hydrogen chloride (HCl)

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity

Conclusion: The acute toxicological results displayed may not be the results of actual testing of this material but based on a similar tested material.

LD50/Rat/> 5,000 mg/kg
Remarks: estimated

Acute oral toxicity

Adipic acid:
LD50/Rat/>/5,000 mg/kg/OECD Test Guideline 401
LC50/Rat/4 h/20 mg/lRemarks: estimated

Acute inhalation toxicity

Acute dermal toxicity

LD50/Rabbit/> 2,000 mg/kg
Remarks: estimated

Acute dermal toxicity

Adipic acid:
LD50/Rabbit/> 5,000 mg/kg/No information available.

Skin corrosion/irritation

Skin corrosion/irritation

Conclusion: No skin irritation
Adipic acid:Rabbit Result: No skin irritation /No information available.

Serious eye damage/eye irritation

Conclusion: No eye irritation

Serious eye damage/eye irritation

Adipic acid:
Rabbit
Result: Irritating to eyes./OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

Conclusion: Not sensitizing.

Germ cell mutagenicity

Genotoxicity in vivo

Conclusion: Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	
Toxicity for reproduction	Conclusion: Based on available data, the classification criteria are not met.
Toxicity for reproduction	Adipic acid:
	Conclusion: No known effect.
Aspiration hazard	
Aspiration toxicity	No aspiration toxicity classification

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity

Ecotoxicological information provided is based on a structurally or compositionally similar product. This material is not classified as dangerous for the environment. The effects on aquatic organisms are due to an external (non-systemic) mode of action and are significantly reduced (by a factor of 7-20) within 30 minutes due to the binding of the product to dissolved organic carbon and inorganic sorbents such as clays and silts.

LC50/96 h/Branchydanio rerio (zebra fish)/Acute toxicity/OECD Test Guideline 203: > 1 - 10 mg/l

EC50/48 h/Daphnia magna (Water flea)/Immobilization/OECD Test Guideline 202: > 10 - 100 mg/l

IC50/algae/Growth inhibition/OECD Test Guideline 201:

Due to the cationicity of the polymer, test is not appropriate.

Adipic acid:

LC50/96 h/Fish: > 100 mg/l

EC50/48 h/Daphnia (water flea): 85.6 mg/l

EC50/72 h/algae: 31.3 mg/l

Toxicity to other organisms

No data available

Persistence and degradability

Biological degradability:

CO2 Evolution Test/OECD Test Guideline 301B/28 d:

The polymeric ingredient is not readily biodegradable, but degradable by hydrolysis.

Biological degradability:**Adipic acid:**

Not readily biodegradable.

Bioaccumulative potential

Partition coefficient: n-octanol/water: Not applicable

Adipic acid:

Partition coefficient: n-octanol/water: log Pow: 0.093

Mobility in soil

Water solubility: Limited by viscosity.

Surface tension: Not applicable

Other adverse effects

No information available.

Additional ecological information: Ecotoxicological information provided is based on a structurally or compositionally similar product. This material is not classified as dangerous for the environment. The effects on aquatic organisms are due to an external (non-systemic) mode of action and are significantly reduced (by a factor of 7-20) within 30 minutes due to the binding of the product to dissolved organic carbon and inorganic sorbents such as clays and silts.

13. DISPOSAL CONSIDERATIONS**Product**

Recycling, recovery and reuse of materials is recommended if permitted by regulations. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging

Must be disposed of in accordance with local and national regulations.

14. TRANSPORT INFORMATION**Land transport**

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.

Air transport



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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Title III Section 311 Categories

No SARA Hazards

US. Environmental Protection Agency (EPA); Superfund Amendments and Reauthorization Act (SARA) Section 302 Extremely Hazardous Substances as amended by US Federal Register Final rules.

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to

www.P65Warnings.ca.gov.

Acrylamide (79-06-1) < 0.1 %

Notification status

USA	:	All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.
Canada	:	All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).
European Union	:	All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.
Australia	:	All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on the Australian Inventory of Chemical Substances (AICS).
China	:	All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
Japan	:	All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the

South Korea	: Japanese (ENCS) inventory. : All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
Philippines	: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.
New Zealand	: All components of this product are included in the New Zealand inventory (NZIoC) or are not required to be listed on the New Zealand inventory(NZIoC).
Taiwan	: All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.

16. OTHER INFORMATION

HMIS Rating

Health: 0

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 0

Fire: 1

Reactivity: 0

Training advice

Read the safety data sheet before using the product.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

Additions, Deletions, Revisions

Relevant changes have been marked with vertical lines.

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